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## CENTRAL INTELLIGENCE AGENCY

## INFORMATION REPORT

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SECURITY INFORMATION

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1. In early July 1953, the Astrophysical Observatory Potsdam received the first of the receivers for radio astronomical use ordered from the Werk fuer Fernmeldewesen HF. This instrument works on 180 -220 mcs and uses a parabolic reflector of 9m. diameter. The mixing head is immediately behind the antenna. To keep the noise level as low as possible, the mixing head was designed with the cascade connection (Kaskodenschaltung), based on an example found in American literature on the subject. There are two triode systems, one utilizing a cathode base connection (Kathodenbasisschaltung) and one a grid base connection (Gitterbasisschaltung). By this means, a sensitivity of 2.8 ktp has been reached.
2. Receivers for lower frequencies are being built by the observatory itself, but receivers for higher frequencies are being supplied by Werk HF. These will be used first for 45 - 70 oms, then 20 oms, and later 10 oms. The observatory is also interested in still higher frequencies and is only waiting for the Werk HF to build the necessary receivers.
3. An East German Commission for Radio Astronomy has been formed. A conference is scheduled for 4 and 5 September 1953. Guests  will also be invited. The provisional lecture program includes:-

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Prof. Walter Grotrian and } Solar problems.  
Dr. Johannes Wempe }  
(both from the Astrophysical Observatory.)

Prof. Otto Hachenberg } Ionosphere.  
[Heinrich-Hertz-Institut.] }

Dr. Herbert Daene } Instruments  
[Astrophysical Observatory.] }

Dipl. Ing. Gerhard Megla } 20 oms. receiver  
[Sachsenwerk Radeberg.] }

Dipl. Ing. Wilhelm Grimm } Spectrometry  
[VEB Funkwerk Koepenick.] }

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25 YEAR RE-REVIEW